

## Message Text

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PAGE 01 MOSCOW 10137 141623Z  
ACTION EUR-12

INFO OCT-01 ISO-00 OES-07 NASA-02 CIAE-00 INR-07  
NSAE-00 L-03 NAS-01 NSF-02 HEW-06 DODE-00 /041 W  
-----053543 142213Z /21

R 141410Z JUL 77  
FM AMEMBASSY MOSCOW  
TO SECSTATE WASHDC 9831

UNCLAS MOSCOW 10137

DEPT PASS NASA FOR ZOOK

E.O. 11652: N/A

TAGS: TBIO, TSPA, UR, US

SUBJECT: US-USSR COOPERATION IN SPACE (04.05): SPACE BIOLOGY  
AND MEDICINE: COSMOS "77"

1. FOUR MAN NASA TXTAM REPORTED FAVORABLY TO EMBASSY ON MOSCOW VISIT IN PREPARATION FOR LAUNCHING OF BIOLOGICAL SATELLITE "COSMOS 77" SCHEDULED FOR EARLY AUGUST. THE SATELLITE WILL CARRY JOINT EXPERIMENTS ON RADIATION DOSIMETRY AND METABOLIC EFFECTS OF WEIGHTLESSNESS, WHICH ARE KEY PROBLEMS IN LONG-TERM MANNED SPACE FLIGHT. THE RADIATION DOSIMETRY EXPERIMENT IS EXPECTED TO ADD FURTHER KNOWLEDGE ABOUT RADIATION EXPOSURE IN SPACE AND PROVIDE A FIRMER BASIS FOR CORRELATION OF THE RESULTS OF PREVIOUS U.S., FRENCH AND SOVIET MEASUREMENTS. OTHER EXPERIMENTS WILL ADDRESS THE PROLONGED EFFECTS OF WEIGHTLESSNESS ON THE LIVER ENZYMES, BONES AND BLOOD CELLS OF RATS.

2. THE NASA TEAM REPORTED MOST FAVORABLE ON THE COOPERATIVE SPIRIT AND SCIENTIFIC CALIBER OF THEIR SOVIET COUNTERPARTS. THE DISCUSSIONS WERE COMPLETELY FREE AND OPEN, WITH THE SOVIETS MAKING IMPORTANT MODIFICATIONS IN THEIR PLANNED EXPERIMENTS ON THE BASIS OF U.S. SUGGESTIONS. THE SOVIETS WERE ALSO RESONABLY COOPERATIVE ON SHOWING SPACE RESEARCH FACILITIES  
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TO THE NASA TEAM INCLUDING A CENTRIFUGAL MOUNTED SALYUT SPACECRAFT FOR TRAINING AND TESTING OF SOVIET COSMONAUTS.

3. COMMENT: COSMOS 77 AND THE BILATERAL SPACE BIOLOGY PROGRAM IN GENERAL PROVIDE AN EXCELLENT EXAMPLE OF ADVANTAGES TO BE OBTAINED FROM US-USSR COOPERATION. IF SUCCESSFUL, THE COSMOS 77 EXPERIMENT SHOULD PROVIDE A FURTHER ELUCIDATION OF

BONE DEMINERALIZATION AND RED BLOOD CELL CHANGES THAT HAD BEEN OBSERVED IN SKYLAB ASTRONAUTS. THE SOVIET SPACE BIOLOGY PROGRAM IS AND WILL BE, UNTIL THE FIRST SHUTTLE FLIGHTS IN 1980, THE ONLY VEHICLE FOR THE U.S. TO OBTAIN DATA IN THIS IMPORTANT AREA. END COMMENT.

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## Message Attributes

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**Current Classification:** UNCLASSIFIED  
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**Review Markings:**  
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